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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. SM10861P1670US Robert J. Davis 1088 10/014,381 10/26/2001 EXAMINER 11/25/2003 WOOD, PHILLIPS, KATZ, CLARK & MORTIMER KIM, SUN U 500 W. MADISON STREET ART UNIT PAPER NUMBER **SUITE 3800** 1723 CHICAGO, IL 60661

DATE MAILED: 11/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

					AS
	,	Application	on No.	Applicant(s)	
Office Action Summary		10/014,38	31	DAVIS ET AL.	
		Examiner		Art Unit	<u> </u>
		John Kim		1723	
Period fo	The MAILING DATE of this communication or Reply	appears on the	e cover sheet with the c	correspondence addre	ISS
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. Experiod for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by stareply received by the Office later than three months after the material part of the provided part of th	N. R 1.136(a). In no even reply within the state riod will apply and within the app	ent, however, may a reply be tin utory minimum of thirty (30) day ill expire S!X (6) MONTHS from lication to become ABANDONE	nely filed s will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	unication.
1)	Responsive to communication(s) filed on 20	6 October 200	<u>1</u> .	•	
2a) <u></u>	This action is FINAL . 2b)⊠ T	his action is no	on-final.		
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠	4) Claim(s) 1-20 is/are pending in the application.				
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5)[S) Claim(s) is/are allowed.				
6)	ŝ)⊠ Claim(s) <u>1-5 and 7-20</u> is/are rejected.				
7) 🖂)⊠ Claim(s) <u>6</u> is/are objected to.				
8)[Claim(s) are subject to restriction an	d/or election r	equirement.		
Applicat	ion Papers				
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>19 February 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					•
	Applicant may not request that any objection to	the drawing(s) t	e held in abeyance. Se	e 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the cor	rection is requir	ed if the drawing(s) is ob	jected to. See 37 CFR	1.121(d).
11) \square The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. §§ 119 and 120					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 					
Attachmen	nt(s)				
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No((PTO-413) Paper No(s) Patent Application (PTO-15	

Art Unit: 1723

1. Information disclosure statement submitted on 2/8/02 have been considered by the examiner

- 2. Examiner noted that the residence of applicants in application data sheet and oath are different. Applicants are requested to correct this discrepancy.
- 3. Claim 10 is objected to because of the following informalities: "particle extraction area" should be corrected to "particle collection area". Appropriate correction is required.
- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 16 and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Recitation of "said outlet flume" in claims 16 and 18 lacks a positive antecedent basis.
- 6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-5, 7-9, 11-15 and 17-19 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 4,767,532 (hereinafter referred to as Weis '532). Weis '532 teaches an apparatus for removing grits e.g. solid particles from liquid comprising a substantially round shell (22) having a tangential inlet and a tangential outlet wherein an inlet is a point of liquid entry into the shell (22) and an outlet is a point of exit into outlet flume (52) inside the shell (22) and the outlet is elevated from the inlet and the outlet flume (52) has a floor (55)

Art Unit: 1723

overhanging a portion of particle extraction area comprised of floor (13) and a particle collection area is located centrally of the particle extraction area having a central opening (15) for removing grits (see figures 1-5; col. 2, line 61 – col. 3, line 4; col. 3, lines 22-68; col. 4, line 19 – col. 5, line 59) (claims 1-3, 7, 11-13, 17). Weis '532 teaches an inlet flume (41) extending upstream from the inlet and penetrating the rounded shell (22) and having a bottom substantially at a same elevation as a bottom of the particle extraction area (13) (see figure 4) (claims 4, 14). Weis '532 teaches a baffle (45) in the round shell (22) extended from the inlet flume (41) to form an inherent tunnel extending into the particle extraction area (13) (see figures 1, 4) (claims 5, 15). Weis '532 teaches an outlet opening having a bottom floor (55) located at an elevation substantially at a mid elevation of the rounded shell (22) (see figures 1, 4) (claims 8, 18). Weis '532 teaches an inlet tunnel formed by a baffle (45) and floor (13) and a top plate which is a bottom floor (55) located at an elevation substantially at a mid elevation of the rounded shell (22) (see figures 1, 4) (claims 9, 19).

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 10 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weis '532. Weis '532 teaches the apparatus for removing grits e.g. solid particles from liquid as described in above paragraph 7. Claims 10 and 20 essentially differ from the apparatus of Weis '532 in reciting that a bottom floor of the round shell slopes toward the particle collection area. Weis '532 teaches that solid particles are carried near the floor (13) and urged around the floor

Art Unit: 1723

and radially inwardly where they drop through a central opening (15) and pass into a grit storage chamber (12) (see col. 4, lines 56-60). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate a sloping bottom floor toward a centrally located particle collection area in the apparatus of Weis '532 to facilitate the movement of solid particles to the collection area by gravity.

- 10. Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- Claim 16 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Kim whose telephone number is (703) 308-2350. The examiner can normally be reached on weekdays from 7:00 AM 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker, can be reached on (703) 308-0457. The fax phone number for official response is (703) 872-9306.

When sending a draft amendment by fax, please mark the paper as "DRAFT"; otherwise, mark the paper "OFFICIAL". This will expedite the processing of the paper.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

Art Unit: 1723

John Kim Primary Examiner Art Unit 1723

J. Kim November 18, 2003